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DR. DONALD F. CHAMBERLAIN  
Reports on Russia's scientific progress

# Russ Scientist Backlog Noted

By GEORGE McWILLIAMS  
Denver Post Staff Writer

ESTES PARK, Colo., Sept. 13.—A government science expert said Friday that Russia's manpower pool for scientific research is 15 pct. greater than the United States and in five years will be 30 pct. greater.

The comparison was drawn by Dr. Donald F. Chamberlain, chief of fundamental science division in the Central Intelligence Agency's office of scientific intelligence.

Dr. Chamberlain was one of three speakers at a panel discussion Friday, closing the 12th National Conference on the Administration of Research. The conference, held in the Stanley Hotel in Estes Park and sponsored by the University of Denver Research Institute, has drawn more than 200 research directors from universities, government and industry across the nation.

In speaking of developments along the line of military weapons, Dr. Chamberlain said Russia's ability to put into orbit a much heavier satellite than any launched by the U. S. shows "development of a greater propulsion unit."

## OTHER SPEAKERS

Other speakers at the closing session of the three-day conference were Tracy S. Voorhees, special assistant for mutual weapons development in the office of the assistant secretary of defense, and A. B. Kinzel, vice

president for research and development of Union Carbide & Carbon Co.

Voorhees talked about military research in NATO nations, and said research and development in some scientific fields in Europe is ahead of that in the U. S. He spoke particularly of German progress in miniaturization and the French advances in electronics.

Kinzel talked about the scientific research system in Europe and said that state supported universities and institutes give those nations some advantages not enjoyed in the U. S. where research projects are financed mostly by private industry.

## DECLINES COMPARISON

Dr. Chamberlain declined to make a general comparison of scientific progress in the United States and the Soviet Union. He said in some areas the Russians have gone ahead of the U.S., in some areas they are even and in some are behind.

"In areas in which the Russians have put their best planners, best research and best brains," Dr. Chamberlain said, "they have achieved some results. This is certainly true in the field of nuclear physics."

He said the Russians

nuclear physics.



TRACY S. VOORHEES

Weapons development expert